

Title (en)

LIGHTWEIGHT BLOCKCHAIN BASED ON SPLIT-TRUST

Title (de)

LEICHTE BLOCKCHAIN BASIEREND AUF GETEILTEM VERTRAUEN

Title (fr)

CHAÎNE DE BLOCS LÉGÈRE BASÉE SUR LA CONFIANCE FRACTIONNÉE

Publication

EP 3981104 A1 20220413 (EN)

Application

EP 20732410 A 20200523

Priority

- US 201916510144 A 20190712
- US 2020034431 W 20200523

Abstract (en)

[origin: US2021014042A1] A system includes a set of low resource devices, each configured to receive transactions to be added to an encrypted block chain ledger from a sample of untrusted high resource devices, prepare a proposed block of the received transactions, provide the proposed block to the sample of untrusted high resource devices, receive proposed blocks from the untrusted high resource devices originating from the set of low resource devices. The low resource devices run a consensus protocol to select one proposed block to add to the encrypted block chain ledger stored on the untrusted high resource devices.

IPC 8 full level

H04L 9/32 (2006.01)

CPC (source: EP US)

G06F 16/9027 (2018.12 - US); **H04L 9/0637** (2013.01 - US); **H04L 9/0643** (2013.01 - US); **H04L 9/0656** (2013.01 - US); **H04L 9/3239** (2013.01 - EP); **H04L 9/50** (2022.05 - EP); **H04L 9/50** (2022.05 - US)

Citation (search report)

See references of WO 2021011082A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 11405181 B2 20220802; **US 2021014042 A1 20210114**; EP 3981104 A1 20220413; WO 2021011082 A1 20210121

DOCDB simple family (application)

US 201916510144 A 20190712; EP 20732410 A 20200523; US 2020034431 W 20200523